

CLAIMS

1. Working enclosure (1), of the type comprising at least one envelope (5) delimiting the inside of a working chamber (7), and at least one fan (10) for making the atmosphere of the working chamber move, the fan comprising a propeller (11), which is placed inside the working chamber in order to rotate about a geometrical axis of rotation (A), and a motor (11, 12) with a rotating magnetic field comprising a stator located outside the working chamber, and a rotor mounted so as to rotate with the propeller as one piece and made to rotate by the rotating magnetic field, characterized in that the propeller forms the rotor.

2. Enclosure according to Claim 1, characterized in that the propeller (11) comprises blades (21), the upper surfaces (38) of which are inclined at least partially with respect to its axis of rotation (A) in order to produce a local partial vacuum above the propeller, tending to lift it.

3. Enclosure according to Claim 1, characterized in that it comprises means (25, 27) for indexing the position of the propeller with respect to the support surface (28, 44).

4. Enclosure according to claim 1, characterized in that the propeller (11) rests on a support surface (28, 44) located in the working chamber (7).

5. Enclosure according to Claim 4, characterized in that the propeller rests freely on at least one support (16, 48) located in the working chamber (7).

6. Enclosure according to Claim 5, characterized in that the propeller rests directly on the said support (16) which provides the said support surface (28).

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7. Enclosure according to Claim 4, characterized in that it comprises at least one shelf (40) placed in the working chamber, the shelf comprising a lower wall (41) and an upper wall (42) between which the propeller (11) is housed, the lower wall (41) providing the said support surface (44).

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8. Enclosure according to Claims 5 and 7 taken together, characterized in that the propeller rests on the support (48) via the lower wall (41) of the shelf.

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9. Working enclosure according to claim 1, characterized in that it comprises at least one element (30) for heating the atmosphere of the enclosure of the working chamber (7).

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10. Enclosure according to claim 1, characterized in that it comprises at least one element for cooling the atmosphere of the working chamber.

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11. Enclosure according to claim 1, characterized in that the stator (12) is a stator for producing a rotating magnetic field in order to make the propeller (11) rotate.

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12. Enclosure according to claim 1, characterized in that the propeller (11) comprises at least one permanent magnet (24).